

CVD CODEPOSITION OF Al AND ONE OR MORE
REACTIVE (GETTERING) ELEMENTS TO FORM
PROTECTIVE ALUMINIDE COATING

ABSTRACT OF THE DISCLOSURE

CVD aluminide coatings including a small concentration of a reactive, gettering element for surface active impurities dispersed therein are formed for improved oxidation resistance. The aluminide coatings are formed by CVD codeposition of Al and the gettering element on the substrate using coating gases for the gettering element generated either outside or inside the coating retort depending on the chlorination temperature needed for the particular gettering element.